

CLAIMS

1 – Polymer composition comprising

- more than 50 % by weight, with respect to the total weight of the composition, of a nonfunctionalized polyolefin (PO1), and
- 5 - more than 0.5 % by weight, with respect to the total weight of the composition, of at least one polyolefin comprising carboxyl grafts [polyolefin (POg)] which is functionalized by grafting using at least one grafting agent chosen from ethylenically unsaturated carboxylic acids, their anhydrides and their metal salts, at least a portion of the carboxyl grafts of
10 which is neutralized by a metal, optionally by the neutralization, concomitant with and/or subsequent to the grafting, of the carboxyl grafts by at least one metal base, and which has been synthesized from a nonfunctionalized polyolefin (PO2), at least 0.5 % by weight and at most 50 % by weight of the repeat units of which are derived from at least one ethylenically unsaturated
15 monomer which has a different chemical nature from that of the repeat units of the nonfunctionalized polyolefin (PO1).

2 – Composition according to Claim 1, characterized in that more than 50 % by weight of the repeat units of the nonfunctionalized polyolefin (PO1) are derived from propylene.

- 20 3 – Composition according to Claim 2, characterized in that the nonfunctionalized polyolefin (PO1) is a propylene homopolymer.

4 – Composition according to any one of the preceding claims, characterized in that more than 50 % by weight of the repeat units of the nonfunctionalized polyolefin (PO2) are derived from propylene.

- 25 5 – Composition according to Claim 4, characterized in that the nonfunctionalized polyolefin (PO2) is a random copolymer of propylene and of ethylene comprising at least 94 % by weight and at most 98 % by weight of repeat units derived from propylene.

- 30 6 – Composition according to any one of the preceding claims, characterized in that at least 1 % by weight of the repeat units of the

nonfunctionalized polyolefin (PO2) are derived from an ethylenically unsaturated monomer which is different in chemical nature from that of the repeat units of the nonfunctionalized polyolefin (PO1).

5 7 – Composition according to Claim 6, characterized in that at least 2 % by weight of the repeat units of the nonfunctionalized polyolefin (PO2) are derived from an ethylenically unsaturated monomer which is different in chemical nature from that of the repeat units of the nonfunctionalized polyolefin (PO1):

10 8 – Composition according to any one of the preceding claims, characterized in that at most 10 % by weight of the repeat units of the nonfunctionalized polyolefin (PO2) are derived from an ethylenically unsaturated monomer which is different in chemical nature from that of the repeat units of the nonfunctionalized polyolefin (PO1).

15 9 – Composition according to Claim 8, characterized in that at most 6 % by weight of the repeat units of the nonfunctionalized polyolefin (PO2) are derived from an ethylenically unsaturated monomer which is different in chemical nature from that of the repeat units of the nonfunctionalized polyolefin (PO1).

20 10 – Composition according to any one of the preceding claims, characterized in that the nonfunctionalized polyolefins (PO1) and (PO2) each exhibit a melting point and in that their respective enthalpies of fusion differ by an amount of between 25 and 75 J/g.

11 - Composition according to any one of the preceding claims, characterized in that the weight of the nonfunctionalized polyolefin (PO1) with respect to the total weight of the composition is greater than or equal to 80 %.

25 12 – Composition according to any one of the preceding claims, characterized in that the weight of the polyolefin (POg) with respect to the total weight of the composition has a value of at most 10 %.

30 13 - Composition according to any one of the preceding claims, characterized in that it comprises, in addition, up to 5 % by weight, with respect to the total weight of the composition, of conventional additives for polyolefin compositions, such as antioxidants, lubricants, fillers, colorants, nucleating agents, UV stabilizers, antacids, metal-deactivating agents and antistatic agents.

14 – Article comprising the composition according to any one of Claims 1 to 13.